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SEQUENCE LISTING

<110> Roberts, Grace B.

Eric S. Furfine

5 David J. T. Porter

<120> CONTINUOUS TIME RESOLVED RESONANCE ENERGY  
TRANSFER ASSAY FOR POLYNUCLEIC ACID POLYMERASE ACTIVITY

10 <130> Docket No. PU3761

<140>

<141>

15 <150> 60/167,940

<151> 1999-11-29

<160> 3

20 <170> PatentIn Ver. 2.1

<210> 1

<211> 537

<212> PRT

25 <213> Human immunodeficiency virus type 1

<220>

<223> Xaa at position 100 can be Leu or Ile

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<223> Xaa at position 103 can be Lys or Asn

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<223> Xaa at position 106 can be Val, Ile or Ala

<223> Xaa at postion 108 can be Val or Ile

**<220>**

<223> Xaa at position 138 can be Glu or Lys

10 <223> Xaa at position 181 can be Tyr or Cys

<223> Xaa at position 188 can be Tyr or Cys

<223> Xaa at position 236 can be Pro or Leu

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Asp Gly Pro Lys Val Lys Gln Trp Pro Leu Thr Glu Glu Lys Ile Lys  
20 25 30

25

Ala Leu Val Glu Ile Cys Thr Glu Met Glu Lys Glu Gly Lys Ile Ser  
35 40 45

Lys Ile Gly Pro Glu Asn Pro Tyr Asn Thr Pro Val Phe Ala Ile Lys  
30 50 55 60

Lys Lys Asp Ser Thr Lys Trp Arg Lys Leu Val Asp Phe Arg Glu Leu

	65				70					75					80	
	Asn	Lys	Arg	Thr	Gln	Asp	Phe	Trp	Glu	Val	Gln	Leu	Gly	Ile	Pro	His
					85					90					95	
5	Pro	Ala	Gly	Xaa	Lys	Lys	Xaa	Lys	Ser	Xaa	Thr	Xaa	Leu	Asp	Val	Gly
				100					105					110		
	Asp	Ala	Tyr	Phe	Ser	Val	Pro	Leu	Asp	Glu	Asp	Phe	Arg	Lys	Tyr	Thr
10			115					120					125			
	Ala	Phe	Thr	Ile	Pro	Ser	Ile	Asn	Asn	Xaa	Thr	Pro	Gly	Ile	Arg	Tyr
			130				135						140			
15	Gln	Tyr	Asn	Val	Leu	Pro	Gln	Gly	Trp	Lys	Gly	Ser	Pro	Ala	Ile	Phe
	145					150					155				160	
	Gln	Ser	Ser	Met	Thr	Lys	Ile	Leu	Glu	Pro	Phe	Arg	Lys	Gln	Asn	Pro
					165					170					175	
20	Asp	Ile	Val	Ile	Xaa	Gln	Tyr	Met	Asp	Asp	Leu	Xaa	Val	Glys	Ser	Asp
				180						185				190		
	Leu	Glu	Ile	Gly	Gln	His	Arg	Thr	Lys	Ile	Glu	Glu	Leu	Arg	Gln	His
25			195					200						205		
	Leu	Leu	Arg	Trp	Gly	Leu	Thr	Thr	Pro	Asp	Lys	Lys	His	Gln	Lys	Glu
			210				215						220			
30	Pro	Pro	Phe	Leu	Trp	Met	Gly	Tyr	Glu	Leu	His	Xaa	Asp	Lys	Trp	Thr
	225					230						235				240

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Val Gln Pro Ile Val Leu Pro Glu Lys Asp Ser Trp Thr Val Asn Asp  
 245 250 255

5 Ile Gln Lys Leu Val Gly Lys Leu Asn Trp Ala Ser Gln Ile Tyr Pro  
 260 265 270

Gly Ile Lys Val Arg Gln Leu Cys Lys Leu Leu Arg Gly Thr Lys Ala  
 275 280 285

10

Leu Thr Glu Val Ile Pro Leu Thr Glu Glu Ala Glu Leu Glu Leu Ala  
 290 295 300

15 Glu Asn Arg Glu Ile Leu Lys Glu Pro Val His Gly Val Tyr Tyr Asp  
 305 310 315 320

Pro Ser Lys Asp Leu Ile Ala Glu Ile Gln Lys Gln Gly Gln Gly Gln  
 325 330 335

20 Trp Thr Tyr Gln Ile Tyr Gln Glu Pro Phe Lys Asn Leu Lys Thr Gly  
 340 345 350

Lys Tyr Ala Arg Met Arg Gly Ala His Thr Asn Asp Val Lys Gln Leu  
 355 360 365

25

Thr Glu Ala Val Gln Lys Ile Thr Thr Glu Ser Ile Val Ile Trp Gly  
 370 375 380

30 Lys Thr Pro Lys Phe Lys Leu Pro Ile Gln Lys Glu Thr Trp Glu Thr  
 385 390 395 400

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Trp Trp Thr Glu Tyr Trp Gln Ala Thr Trp Ile Pro Glu Trp Glu Phe  
 405 410 415

Val Asn Thr Pro Pro Leu Val Lys Leu Trp Tyr Gln Leu Glu Lys Glu  
 5 420 425 430

Pro Ile Val Gly Ala Glu Thr Phe Tyr Val Asp Gly Ala Ala Asn Arg  
 435 440 445

10 Glu Thr Lys Leu Gly Lys Ala Gly Tyr Val Thr Asn Arg Gly Arg Gln  
 450 455 460

Lys Val Val Thr Leu Thr Asp Thr Thr Asn Gln Lys Thr Glu Leu Gln  
 15 465 470 475 480

Ala Ile Tyr Leu Ala Leu Gln Asp Ser Gly Leu Glu Val Asn Ile Val  
 485 490 495

20 Thr Asp Ser Gln Tyr Ala Leu Gly Ile Ile Gln Ala Gln Pro Asp Gln  
 500 505 510

Ser Glu Ser Glu Leu Val Asn Gln Ile Ile Glu Gln Leu Ile Lys Lys  
 515 520 525

25 Glu Lys Val Tyr Leu Ala Trp Val Pro Ala His Lys Gly Ile Gly Gly  
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Asn Glu Gln Val Asp Lys Leu Val Ser Ala Gly Ile Arg Lys Val Leu  
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006277 25952460

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<212> DNA

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<223> Description of Artificial Sequence: synthesized  
oligonucleotide

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<400> 2

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20 <223> Description of Artificial Sequence: synthesized  
oligonucleotide

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